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Update on MRLs for Pesticides and Chemicals in Agricultural Crops

Report Categories:

Sanitary/Phytosanitary/Food Safety

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Report Highlights:
The Russian Federal Service for the Protection of Consumer Rights and Well-Being of the Population (Rospoterbnadzor) regularly updates and expands the list of controlled chemicals, including in agricultural products. These Hygiene Norms and 13 updates can be found on the Rospotrebnadzor web-site: www.rospotrebnadzor.ru.

General Information:

The Russian Federal Service for Veterinary and Phytosanitary Surveillance (VPSS) at the Russian Ministry of Agriculture regulates the presence of pesticides and chemicals in agricultural products, including imported plant products. While VPSS enforces the tolerance levels, it is the Federal Service for the Protection of Consumer Rights and Well-Being of the Population (Rospotrebnadzor) at the Ministry of Health and Social Development of the Russian Federation that establishes the Maximum Residue Levels (MRLs).

The major Rospotrebnadzor document that establishes the MRLs for pesticides and chemicals is the Hygiene Norms (HN) for Chemicals and Pesticides in the External Entities (HN 1.2.1323-03) issued in 2003. These norms are developed for pesticides and chemicals that are registered in the Russian Federation. The registration is conducted by the VPSS. Rospotrebnadzor regularly updates the Hygiene Norms 1.2.1323-03 based on new registrations and on its own findings regarding the chemicals. Since 2003 Rospotrebnadzor issued 13 additions to this document.

In these Hygiene Norms the MRLs are structured in the tables by names of the active chemical and are specified for different entities: soil, air, water, human body, crops (Table 1). The composition of Hygiene Norms for chemicals is not user-friendly as the producer of a certain agricultural crop needs to search for this crop in all of the different chemical categories in order to find the MRL. For example, the result of such search for MRL's for soybeans and soybean oil is provided in the Table 2.

These Hygiene Norms and 13 updates to these norms can be found on the Rospotrebnadzor web-site: www.rospotrebnadzor.ru. The Russian texts of the Hygiene Norms for Chemicals and Pesticides in the External Entities (HN 1.2.1323-03) and thirteen Amendments to these Norms, as well as unofficial translations of the Norms and amendments are attached to the report. Some information on the Russian MRLs for pesticides in agricultural crops can be found on the site: www.mrldatabase.com. The Russian texts of the HN 1.2.1323-03 and Amendments ## 1 – 13 to these Hygiene Norms and the courtesy translations of these texts are available in the Office of Agricultural Affairs, FAS, Moscow .

Table 1. Hygiene Norms HN 1.2.1323-03 (beginning of table)

NN	Name of Active Substance	ADD (mg/kg body weight)	MPL\APA in soil (mg/kg)	MPL\RSL in reservoir water (mg/dm3)	MPL\RSL in working air (mg/m3)	MPL\RSL in open air (mg/m3)	MPL in product (mg/kg)	Trade and brand name of drug
1	2	3	4	5	6	7	8	9
1	Beta-dehydro-	0,02	0,5\ (tr.)	0,04\	0,2\	0,01\(m.o.)	Potatoes, cotton	Dilor

	heptachlor			(s.-t.) 0,1\ (org.)		0,005\ (daily)	(oil), grapes - 0,15; sugar beet, vegetables - 0,2; cotton (seed) -0,2 <*>; blue cotton - 0,15 <*>	
c	(Indolyl-3) acetic acid	nn	nn	nn	nn	nn	nn	Heteroauxin
3	Hydrozene (Chloride-N,N-dimethyl-N-)-(2-ethyl chloride)	0,17	\0,1	1,0\ (s.-t.)	1,0\	\0,08	Cereal grain, apples, potatoes - na	Quartazene
4	0- (2,4-dichlorophenyl)-S-propyle-O-ethyl-thiophosphate	0,0002	\0,1	0,0004\ (s.-t.)	0,1\	0,1\	Peach, apples, citrus (pulp), cabbage, potatoes, meat -0,01; grapes - 0,01 <*>; cotton (seed, oil) - 0,02 <*>; sunflower (seed) -0,1 <*>; sugar beet - 0,02; currant - na <*>	Etaphos
5	0-(4-tert-butyl-2-chlorophenyl)-O-methyl-N-methyl-amidophosphate	0,08	nr	0,01\ (gen.)	0,5\	nr	milk, dairy products – na meat, meat products -0,3	Amidophos, Ruelen

Note: na – not allowed

This table is given as an example of structure of Hygiene Norms HN 1.2.1323-03. Altogether there are 414 names of chemicals (active substances) in this document. All thirteen additions to this document issued from 2003 through 2010 have the same structure.

Table 2. MRLs for chemicals in soybeans and soybean products

NN	Name of Active Substance	MRL in Products (mg/kg)	Trade and Brand Name of Drug
From Attachment 13			
2	Acifluorfen	soybean (grain, oil) - 0.1	Galaxy Top, VRK
16	Tepraloxydim	soybean (grain) - 5.0; soybean (oil) - 0.2	Aramo 45, CE
22	Chlorimuron-ethyl	soybean (grain, oil) - 0.05	Fabian, EDC; Harmony Classic, DC
23	Cypermethrin	soybean (grain) -0.05; soybean (oil) - 0.1	Shar Pei, M

From Attachment 12			
20	Chisalofop-P-ethyl	soy (seeds, oil) - 0.1	Forward, MKE
From Attachment 11			
28	Flumioxazyn	Soya (grain, oil) - 0.1	MR Pledge, JV
From Attachment 10			
6	Imazalil	soybean (grain) - 0.02; soybean (oil) - 0.04;	Scarlet, ME
14	Metribuzin	soybean (grain, oil) - 0.1	Lapis, JV
From Attachment 9			
5	Propargite	soybean grain and oil - 0.1	Omite, SP
From Attachment 8			
3	Imazalil	soybean grain - 0.02 <*> soybean oil 0.04 <*>	Scarlet, ME
11	Tebuconazole	soybean grain and oil - 0.1	Scarlet, ME; Colosal, KE; Bunker, VS; VIALTT, VSK
From Attachment 7			
2	Bentazon	Soybean (grain, oil) - 0.1	Korsar VRK
3	Diquat (dibromide)	Soybean (grain, oil) - 0.1	Reglon Super, VR
6	Imazamox	Soybean (grain, oil) - 0.05	Pulsar, VR
14	Metribuzin	Soybean (grain, oil) - 0.1	Lazurit, SP
From Attachment 6			
44	Fluazifop-P-butyl	Soybean (grain, oil) - 0.04	Fuselad Forte, KE

45	Fludioxonyl	soybean (grain, oil) - 0.05	Maxim, KS
From Attachment 5			
13	Chlorimuron-ethyl	soybean (grain, oil) - 0.05*	Fabian, VDG
From Attachment 3			
9	Glyfosate	soybean (grain)— 0.15	Roundup, VR; Roundup Bio, VR; Roundup Max, VR
15	Imazamox	Soybean (grain, oil) – 1.0*	Pulsar, VR
46	Fluazifop-p-butyl	Soybean (grain, oil)— 0.04*	Fusilade Forte, KE (150 g/l)
55	Esphenvalerate	soy (seeds)— 0.02*, (oil)—0.04*	Sampie, KE (50 g/l); Suminak 5%, KE
From original Hygienic Norms 1.2.1323-03			
8	1,1,-di-(4-chlorophenyl-2,2,2-trichlotoethane)	Soybean (grain) – 0.05	DDT and its derived products (Polydaphen)
59	Alachlor	soybean (grain, oil) - 0.02 <*>	Lasso, lasso + Atrazin (68), Shatochlor
71	Acetochlor	soybean oil and seeds 0.01 <*>; soybean grain - 0.01; soybean oil 0.04;	acenite; acenite A, aconite A super, acetal, shacemide A, acetatrin (268), acetazin (67), harness, trofi
72	Acyfluorphen	soybean grain - 0.1 <*>	blaser 2C, tacl, galaxytop (81)
77	Betomyl	soybean grain and oil - na	

97	Vernolate	soybean grain - 0.5 <*>; soybean oil 0.1<*>	vernam 6E, surpas 6, 7E
105	Galaxyfopmethyl	Soybean grain - 0.05;	zellek-super
106	Galaxyfopethoxyethyl	Soybean grain 0.05;	zellek
110	hexachlorocyclohex ne (alpha, beta, gamma isomers)	Soybean grain - 0.2	Gamma-isomer of HCCH, creoline, lindane, hexachloran
117	Glyphosate	Soybean grain - 0.15 <*>; soybean oil 0.5 <*>	glyalka, glysol, slytan, glycel, glyphopin, glyphosate, roundup, utal, cidocor, forsat, glyetar, fosulen, chistart (127), nitosorg, glyphen, zero, landmaster (14), glymephon, sangly, mamba, alas roundup
129	Deltametrin	soybean oil - 0.01 <*>	decis, decis flo, quick (357), decel, k-obiol, kotec
140	Diclophop-methyl	Soybean grains 0.05; soybean oil - 0.02 <*>	illoxan, prodiphox
142	Dimetheneamide	Soybean (grain, oil) - 0.02	frontier
172	Imazaquin	soybean (grain, oil) - 0.1 <*>	scepter
175	Imazetapyr	soybean (grain, oil) - 0.5	pivot
191	Quizalofop-P- tefuryl	Soybean grain - 0.04, soybean oil - 0.06	pantera
193	Cletodim	soybean (grain, oil) - 0.1	centurion, select
196	Clomazone	soybean (grain, oil) - 0.01 <*>	command
203	Lambdacygalotrin	soybean (grain, oil) - 0.1;	carate

205	Malathione	Soybean grain - 0.3; soybean oil - 0.1	carbophos, fuphanone, carbophot, prostor (85)
227	Metolachlor	Soybean grain - 0.05 <*>; soybean oil 0.02; Soybean grain - 0.01 <*>;	Dual, maloranspecial (374), primextra(68), rotaprim 500 (68) Dual-gold
228	Metribuzine	Soybean grain - 0.25 <*>; soybean oil 0.1 <*>	butrazine, zencor, lazurit
251	Pendimetalin	soybean (grain, oil) - 0.1 <*>	penitran, stomp, cobra
254	Permethrine	soybean oil 0.1 <*>; soybean grain - 0.05 <*>	anometrine, ambush, vismetrine, rovikurt, permephos, iskra
268	Prometrine	Soybean oil - 0.1<*>; soybean grain and oil- 0.1	gezagurad, prometrine, zyrazin, selectin, acetatrin (71), protrazin (68), sitrin, cartex M (234, 274)
272	Propargit	soybean grain and oil 0.1 <*>;	omite
274	Propachlor	soybean grain and oil - na	acylide, niticide, ramrod, cartex M (234, 268)
280	Prophenphos	soybean grain - 0.3; soybean -oil 0.1;	selecron
286	Setoxydime	soybean grain and oil - 0.1	miodan, nabu, nabu C, poast
294	Tepraloxydim	Soybean grain	aramo50

		(0.5)<*>; soybean oil 0.2 <*>	
314	Tiphensulfuronmethyl	Soybean grain and oil - 0.02	harmony, basis (283)
326	Trifluraline	Soybean grain - 0.1; soybean oil 0.1 <*>; Soybean (oil) – 0.1	herbitref, digermin, prodate, olitref, flutar (318), fortress (318), fluran, triflurex, trifluralin, treflan, nitran, iver, Trifluflex
328	Trichlorphon	Soybean grain and oil - 0.1	ricifon, aerol-2 (160), pedike, hypoderminchlorophos, permephos, chlorophos
334	Phenvalerate	soybean grain and oil 0.1 <*>	baversan, sumicidin, phenrio, phenvalerate, phenval
338	Phenoxapropethyl puma-super	Soybean (grain, oil) - 0.05	Puma-super (230); Furore; Furore-super; Asphyt; Puma (230)
360	Fluvalinate	Soybean (grain, oil) - na	mavrick 2F
361	Fozalone	Soybean (grain, oil) – 0.1	benzophosphate, zolon, fozalon
371	Quizalofop-P-ethyl	Soybean (grain, oil)- 0.05 <*>	targa, targasuper
373	Chloramben	soybean (grain, oil) - 0.25	amiben, vegiben
374	Chlorobromourone	soybean (grain, oil) - 0.1	maloran, maloranspecial (227)
391	Cyhexatin	soybean (grain, oil) - 0.1 <*>	oxatin, plictran, cystran
398	Cypermethrine	Soybean grain - 0.01 <*>;	Shrooms, arrivo, ripcord, rovikil, sherpa, citcor, kinmix, fury, ciperkil, cimbush, zets, cipertal, iskra, inta- C-M 9205, inta-vir, cirax, cipi,

		soybean oil 0.1 <*>	cipershans, leptocide, leptocide new, sharpey, almetrine, cesar, rotalaz, inta-C-M, carbacine, cipi plus, leptocide inta-vir
401	Edyl	Soybean grain and oil - 0.02	edyl
405	Ethalfluraline	soybean grain and oil - na	sonalan

Note: This is a courtesy extract and translation from the original Hygiene Norms 1.2.1323-03 of 2003, and Amendments from one through thirteen, made in 2004- 2010. Translation of names of chemical substances and brand names of drugs was made with use of chemical dictionary, where available, or the names were letter-by-letter copy of Russian name in Latin letters. The following abbreviations were used: <*> - temporary maximum allowed levels; na – the substance is not allowed.